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L6: Entry 15 of 18

File: JPAB

Dec 5, 1995

PUB-NO: JP407313859A

DOCUMENT-IDENTIFIER: JP 07313859 A

TITLE: PRODUCTION OF EMULSION OF OIL AND WATER

PUBN-DATE: December 5, 1995

INVENTOR-INFORMATION:

NAME

MAKISE, RYUTARO

COUNTRY

oil-in-water

ASSIGNEE-INFORMATION:

NAME

MAKISE RYUTARO

COUNTRY

APPL-NO: JP06145258

APPL-DATE: May 24, 1994

INT-CL (IPC): B01 F 3/08; B01 J 13/00; C10 L 1/32

ABSTRACT:

PURPOSE: To provide the improved method for producing an emulsion of oil and water.

CONSTITUTION: In this method, when water and a surfactant are blended and agitated with each other beforehand while applying an external pressure to them in a high-speed blender the hydrogen bonds of water are weakened with the external pressure applied by the high-speed blender, and simultaneously the surface tension of water is extremely reduced by the surfactant effect to obtain microcluster water consisting of highly dense, extremely fine molecular agglomerates of water. Then, when optional one of oils is added to the microcluster water while gradually dropping the oil to the water by small amount portions by agitating the water by the high-speed blender, the added oil is included in the cluster water consisting of highly dense, extremely fine molecular agglomerates of water so that the oil itself is divided into extremely fine particles and gradually formed into an agar-like colloidal gel. Any one of oils once formed into such agar-like colloidal gel is easily dissolved in water in any required ratio, if necessary to produce an emulsion of highly dense, extremely fine oil and water.

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File: DWPI

Sep 7, 1993

DERWENT-ACC-NO: 1993-316790

DERWENT-WEEK: 199340

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TITLE: Water contg. micro-cluster of water molecules - which gather around nuclei of e.g. calcium, lithium, zinc, iron, copper, of opposite electrical charge to clusters, giving high energy

PATENT-ASSIGNEE:

ASSIGNEE	CODE
KOAZU PATENNTORAITO INNTANASHONARU KK	KOAZN

PRIORITY-DATA: 1991JP-0352157 (December 13, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> JP 05228476 A	September 7, 1993		005	C02F001/48

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 05228476A	December 13, 1991	1991JP-0352157	

INT-CL (IPC): C01B 5/00; C02F 1/48

ABSTRACTED-PUB-NO: JP 05228476A

BASIC-ABSTRACT:

Water contg. micro clusters of water molecules, gather around nuclei that have opposite electric charge to those of water molecule clusters. Substance that makes up the nuclei is at least one of Ca, Li, Na, n, Fe, Cu, poly-saccharide, fumic acid, enzyme, and hormone. Water placed in magnetic or electric field of fixed strength is mixed with substance above which has affinity for water molecule and then placed in magnetic or electric field of different strength than water, then the mixt. is placed in magnetic or electric field. Concn. of substance in mixt. is 0.001-1.0 wt.%. Water or mixt. above is exposed to magnetic or electric field several times repeatedly. The wavelength of the electromagnetic wave is also claimed.

USE/ADVANTAGE - For producing water contg. micro-clusters with high energy. Water made of smaller clusters has high permeability in organisms so that solute carried by microclusters of water molecules is easily absorbed. A wide field of application for the micro-clustered water is attained. Process produces water.